

CLAIMS

What is claimed is:

1 1. An impact printer comprising:

2 pins for providing an impact; and

3 an impact force controller for changing the force with which the pins impact in
4 accordance with the settings for characters that are to be printed.

1 2. An impact printer comprising:

2 pins for providing an impact;

3 an impact force controller for changing the force with which the pins impact in
4 accordance with the settings for characters that are to be printed;

5 drive means having a coil for driving the pins using magnetic force generated by
6 electricity; and

7 electricity supply means for supplying electricity to the coil, wherein the impact force of
8 the pins are changed according to changes of the magnetic force.

1 3. The impact printer according to the claim 2, wherein the impact force controller changes
2 a supply time or a voltage of the electricity to the drive means.

1 4. A form printer comprising:

2 a plurality of pins, for impacting a form on a platen;

3 a drive unit, for reciprocally driving the pins in both forward and backward directions
4 relative to the form on the platen; and

5 a controller for controlling the drive unit and for changing the impact force of the pins, in
6 accordance with the types of characters that are to be printed.

1 5. The form printer according to the claim 4, wherein the moving velocity of the pins is
2 changed in order to alter the impact force.

1 6. A form printer comprising:

2 a plurality of pins, for impacting a form on a platen;

3 a drive unit, for reciprocally driving said pins in both forward and backward directions;
4 and

5 a controller for controlling the drive unit and for changing the impact force of the pins, in
6 accordance with the types of characters that are to be printed, wherein a plurality of
7 character sets are printed and wherein, when a character to be printed belongs to a first
8 character set in which thick characters are included, the controller reduces the impact
9 force transferred by the pins and further wherein, when a character to be printed belongs
10 to a second character set in which fine characters are included, the controller increases the
11 impact force.

1 7. A printer, which forms multiple dots by transferring an impact force to an object and
2 printing an image, comprising:

3 a plurality of pins, for transferring the impact force; and

4 impact force controller, for changing the impact force exerted by the plurality of pins in
5 accordance with the number of dots that are arranged across the widths of lines forming
6 the print image.

1 8. A printer, which forms multiple dots by transferring an impact force to an object and
2 printing an image, comprising:

3 pins for transferring the impact force; and

4 impact force controller, for changing the impact force exerted by the pins in accordance
5 with the number of dots that are arranged across the widths of lines forming the print
6 image, wherein the impact force is set to a mode at one of a plurality of levels, and the
7 impact force controller changes the mode in accordance with the number of dots that are
8 arranged across the widths of lines forming an object image.

1 9. The printer according to the claim 8, wherein, the command for changing the mode is
2 included in print data for a character, and the impact force controller changes the mode in
3 response to said mode.

1 10. A method for controlling a printer, whose pins impact a print object and print a plurality
2 of dots of a plurality of character sets, comprising the steps of:

3 identifying a character set to be printed; and

4 generating impact power to the pins in accordance with the types of the identified
5 character set.

1 11. A printing controller, for a printer that by transferring an impact force using pins forms
2 dots and prints characters on a sheet, comprising:

3
4 a data analyzer, for determining the type of character set included in print data; and

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6 a printer head controller, for employing the determination results obtained by the data
7 analyzer to change the impact force transferred by the pins.

1 12. A printing controller, for a printer that by transferring an impact force using pins forms
2 dots and prints characters on a sheet, comprising:

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4 a data analyzer, for determining the type of character set included in print data in
5 accordance with the predetermined command that is entered when a character font is to
6 be changed; and

7
8 a printer head controller, for employing the determination results obtained by the data
9 analyzer to change the impact force transferred by the pins.

